



Figure 1A

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G V K R K V C Y F Y D P E V G N Y Y Y G 33  
241 caaggatcatcccatgaagccccatcgcatccgcatgaccatgccctcctcgctcactac  
Q G H P M K P H R I R M T H A L L A H Y 53  
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G L L Q H M Q V L K P F P A R E R D L C 73  
361 cgcttccacgcccagcactatgtctcttttctccgcagcattaccctgaaacccagcaa  
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421 gatcagattcgccaacttaagcgcttcaatgttggtgaagactgtcccgcttttgacggc  
D Q I R Q L K R F N V G E D C P V F D G 113  
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L Y S F C Q T Y A G G S V G G S V K L N 133  
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Figure 1B

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    V S Y F Y E P T I G D Y Y Y G Q G H P M 40
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421 cgaacctaaggcgattcaatgtcggtaggattgtcctgtcttcgacggactttttgat
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781 ggtcacataagagatgttggcgctgaaaaagggaataactatgctctaaatgttccacta
    G H I R D V G A E K G K Y Y A L N V P L 240
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    N D G M D D E S F R S L F R P L I Q K V 260
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    M E V Y Q P E A V V L Q C G A D S L S G 280
961 gatcgggttgggttgcttcaacttatcagtcagggtcacgctgattgccttcggttctta
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```

# Figure 2A

```

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121  cacgtttctcaggcatcgcttggagaatgtaaaaaacaagaagggagagtttgtgccttta
    H V S Q A S L G E C K N K K G E F V P L      44
181  catgtaaagggttgggaaccagaacttgggttctgggaactctatcgactgagaacatccct
    H V K V G N Q N L V L G T L S T E N I P      64
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    Q L F C D L V F D K E F E L S H T W G K      84
301  ggaagtgtttactttgttggatacaaaaactcccaacattgagccacaaggctattctgag
    G S V Y F V G Y K T P N I E P Q G Y S E      104
361  gaagaagaggaagaagaggaagaagtctctggttggaatgctgccaaggctgtagctaaa
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421  ccaaaggctaagcctgcagaagtgaagccagctgttgatgatgaagaggatgagctctgat
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481  tctgacggaatggatgaagatgattctgatgggtgaggattctgaggaagaagagcctaca
    S D G M D E D D S D G E D S E E E E P T      164
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    P K K P A S S K K R A N E T T P K A P V      184
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    K T F N S G N A L E S H N K A K H A A A      244
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    K *                                           245
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## Figure 2B

```

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121 gacagccttgtccacatttctcaggcttcacttgactgcacagtgaatctggagaatct
   D S L V H I S Q A S L D C T V K S G E S 40
181  gtggttttgagtgtgactgttgggtggggctaaacttgttattggaacactttcacacagc
   V V L S V T V G G A K L V I G T L S Q D 60
241  aagttccctcagattagctttgatttgggtttttgataaagagtttgagctttcacacagc
   K F P Q I S F D L V F D K E F E L S H S 80
301  ggtaccaagcaaatgttcatttcattvggtacaaatcccccaacatcgagcaggatgac
   G T K A N V H F I G Y K S P N I E Q D D 100
361  ttcactagttcggatgatgaggatgttctgaagctgttctgctcctgcccctactgct
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   G K G R A * 305
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```

### Figure 3

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ZmRPD3	MDPSSAGSGG	NSLPSVGPDG	QKRRVCYFYD	PDVGNYYYGQ	GHPMKPHRIR	50
RPD3	MVYEATPFD-	---PITVKPS	DKRRVAYFYD	ADVGNYYAYGA	GHPMKPHRIR	46
AtRPD3A	MTHALLAHYG	LLQHMQVLKP	FPARERDLCR	FHADDYVSFL	RSITPETQOD	94
AtRPD3B	MAHSLIIHYH	LHRRLEISRP	SLADASDIGR	FHSPEYVDFL	ASVSPE\$M\$GD	97
ZmRPD3	MTHSLLARYG	LLNQMQVYRP	NPARERELCR	FHAEYINFL	RSVTPETQOD	100
RPD3	MAHSLIMNYG	LYKKMEIYRA	KPATKQEMCQ	FHTDEYIDFL	SRVTPDNLEM	96
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ZmRPD3	QI--RLLKRF	NVGEECPVLD	GLYSFCQTYA	CASVGGAVKF	NHGH-DIAIN	147
RPD3	--FKRESVKF	NVGDDCPVFD	GLYEYCSISG	GG\$MEGAARL	NRGKCDVAVN	144
AtRPD3A	WAGGLHHA\$K	CEASGFCYVN	DIVLAILLEL	KQHERVLYVD	IDIH\$HGDGVE	192
AtRPD3B	WGGGLHHA\$K	SEASGFCYVN	DIVLGILELL	KMFKRVLYID	IDVHHGDGVE	197
ZmRPD3	W\$GGLHHA\$K	CEASGFCYVN	DIVLAILLEL	KHHERVLYVD	IDIH\$HGDGVE	197
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	**	*		* * **		
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RPD3	EAFYTDRVM	TCSFHKYGEF	FPGTGELRDI	GV\$AGKNYAV	NVPLRDGIDD	244
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RPD3	ATYRSVFE\$V	IKKIM\$EWYQF	SAVVLQCGGD	SLSGDRLGCF	NLSMEGHANC	294
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RPD3	VN\$YVKS\$FGIE	MMVVG\$GGGYT	M\$RNVARTWCF	ETGLLN\$NVL	DKDLPYNEY\$Y	344
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ZmRPD3	FGENATR\$VQD	GGRVAS\$EH-R	GLEPMAEDIG	\$SKQAPQADA	SAMAI\$DEPSN	492
RPD3	-----	-----	-----	-----	-----EAKD	413
AtRPD3A	VKME\$EEGTNK	GGAEQAF\$PPK	T			501
AtRPD3B	DNPE\$PDVNP-	-----P\$S				471
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RPD3	TKGGSQYARD	LHVE\$HDNEFY				433

# Figure 4

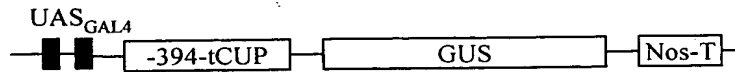
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AtHD2A	----DDEEDE	SDS-D-----	-----GMD	EDDS DGEDSE	EEE-----	162
AtHD2B	EKPESDEEDE	SDDEDESEED	--DDSEKGMD	VDEDDSDDDDE	EEDSEDEEEE	197
ZmHD2	KKSKDDDDSD	EDETDDSDDE	ETDDSDGLS	SEEGDDSSSD	EDDTSDEEEE	195
AtHD2A	PTP--KKPAS	-SKKRANETT	PKAPVSAKKA	KVAV----TP	QKTDEKK---	202
AtHD2B	ETP--KKPEP	INKKRPNESV	SKTPVSGKKA	KPAAAPASTP	QK-----TEK	240
ZmHD2	DTPTPKKPEV	GKKRPAESSV	LKTELSDKKA	KVATPSS--	QKTGGK----	238
AtHD2A	-KGGKA----	-----	-----AN	QSPKSASQVS	CGSC-KKTFN	229
AtHD2B	KKGG--HTAT	PHPAK-----	KGGKSPVNAN	QSPKSGGQSS	GGNNNKKPFN	283
ZmHD2	-KGAAVHVAT	PHPAKGKTIV	NNDKSVKSPK	SAPKSGGSVP	CKPCSK-SFI	286
AtHD2A	SGNALE-SHN	KAKHAAAK				245
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**Figure 10**

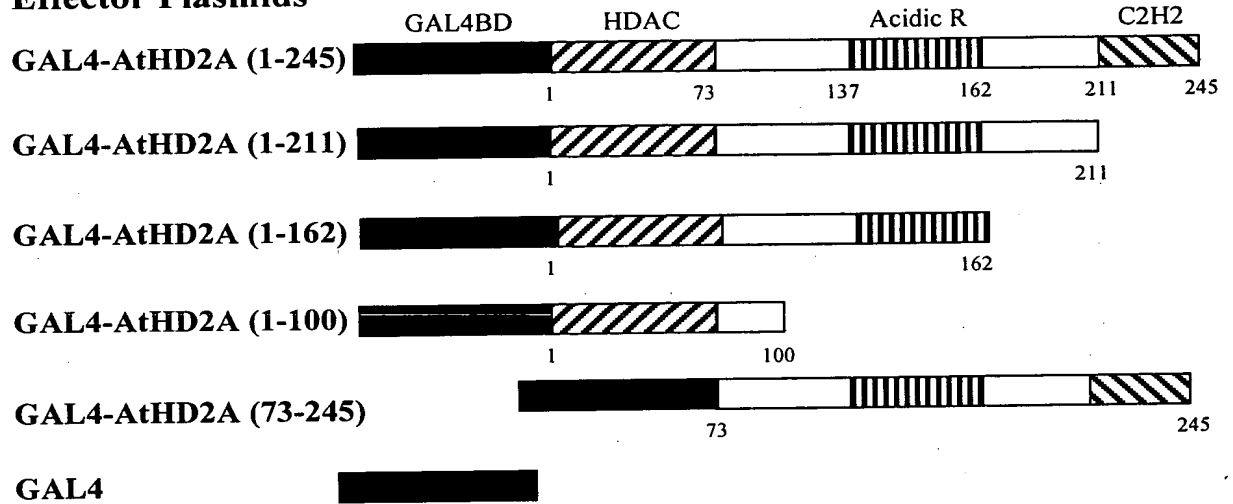
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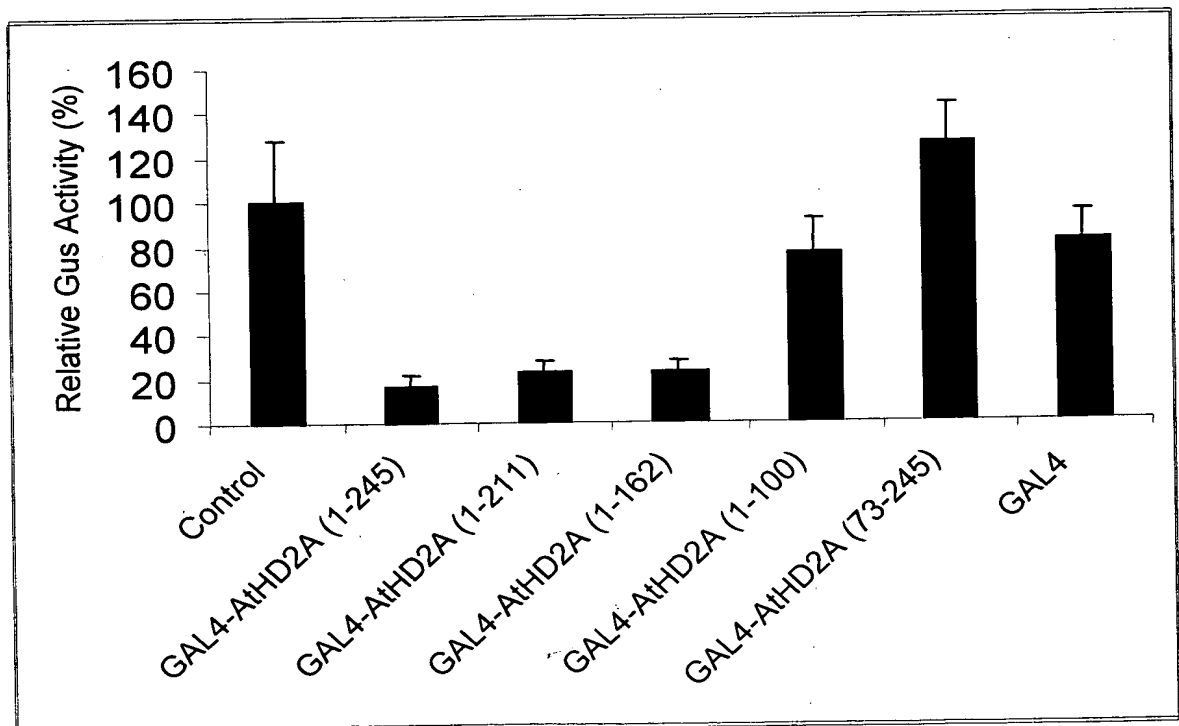
**UAS<sub>GAL4</sub>-tCUP-GUS**



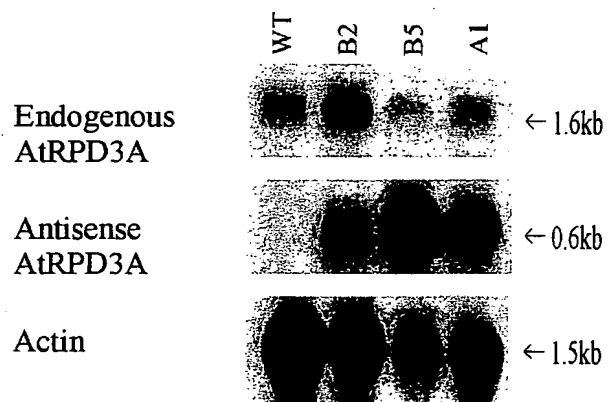
**Effector Plasmids**



**B**



**FIGURE 12**





**FIGURE 13**

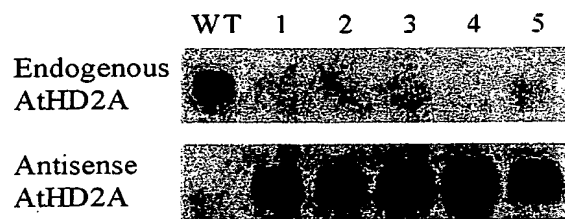


FIGURE 14

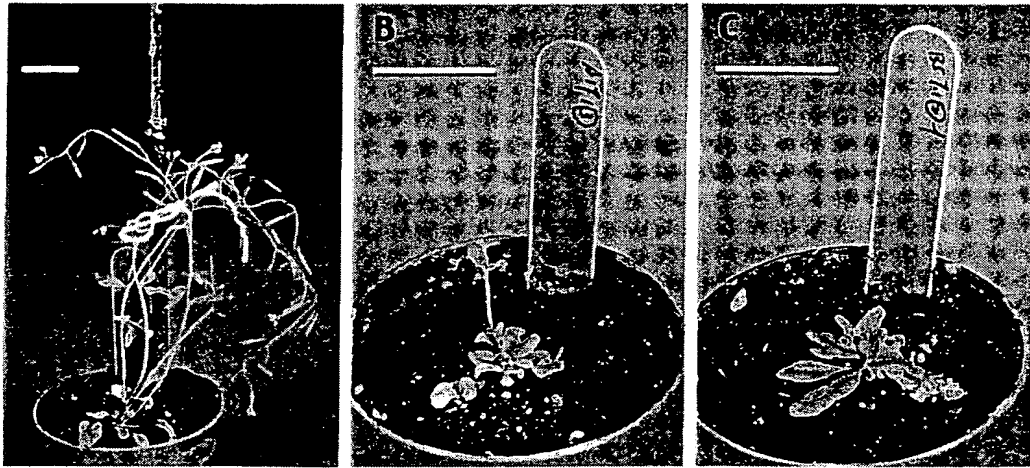
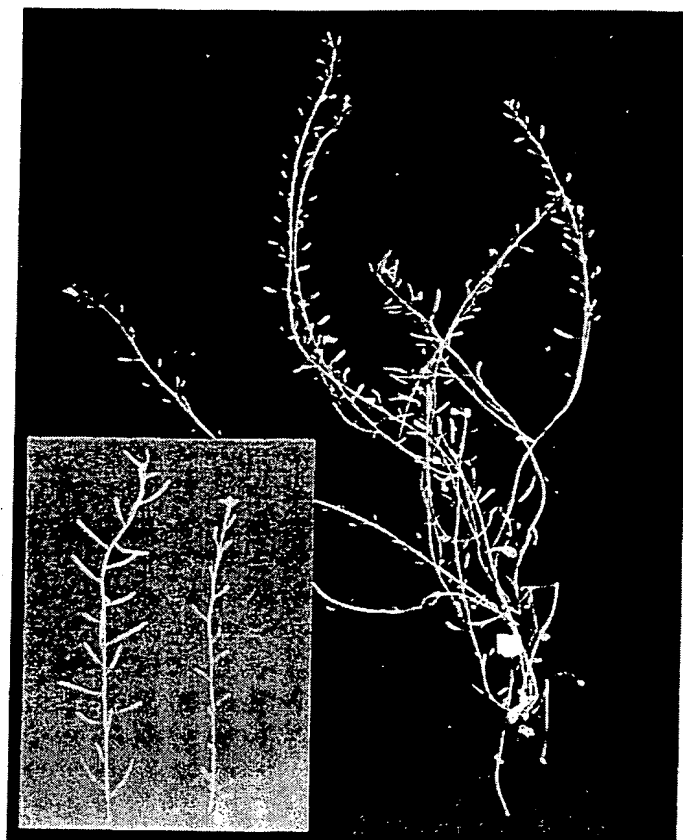
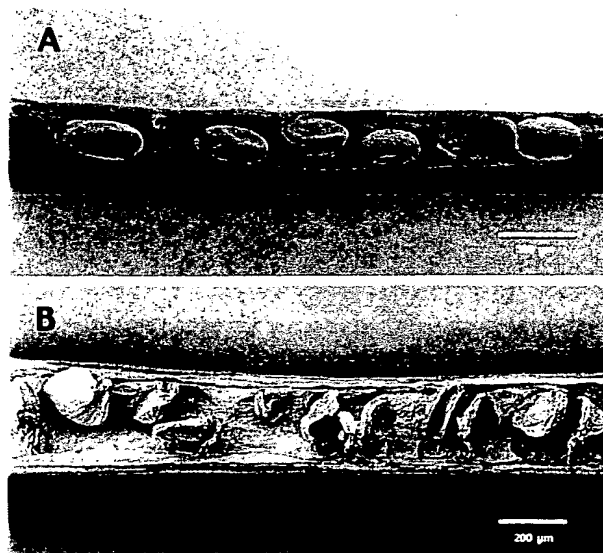


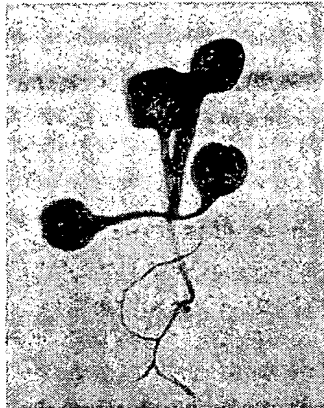
FIGURE 15



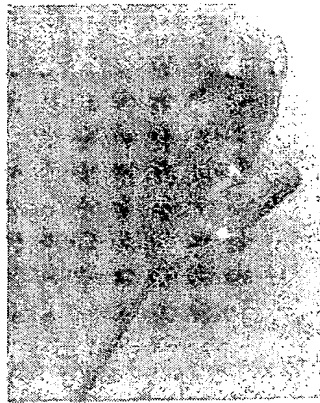
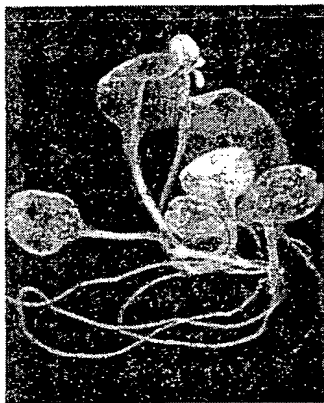
**FIGURE 16**



A



B



C

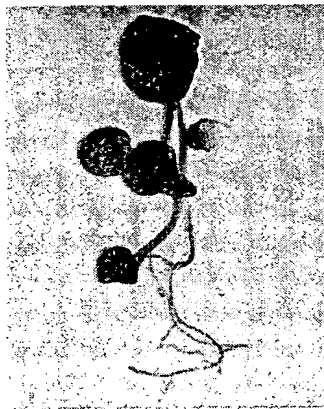


Figure 18

**A**

**Effector Plasmids**

**35S/Pti4** — [35S] — [Pti4] — [Nos-T] —

**tCUP/Pti4** — [tCUP] — [Pti4] — [Nos-T] —

**Reporter Plasmid**

**GCC/GUS** — [GCC-box] — [-62tCUP] — [GUS] — [Nos-T] —

**B**

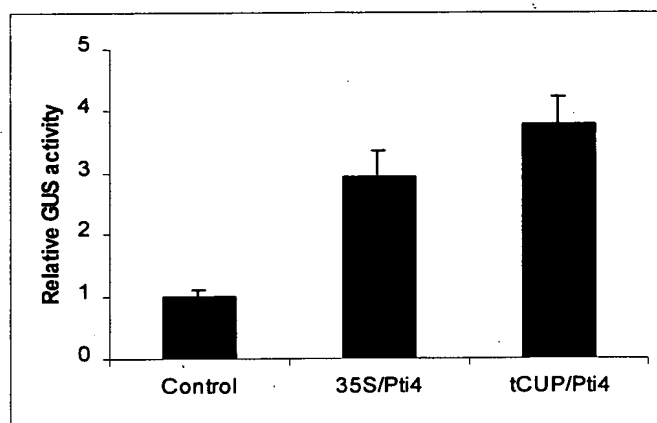


Figure 20

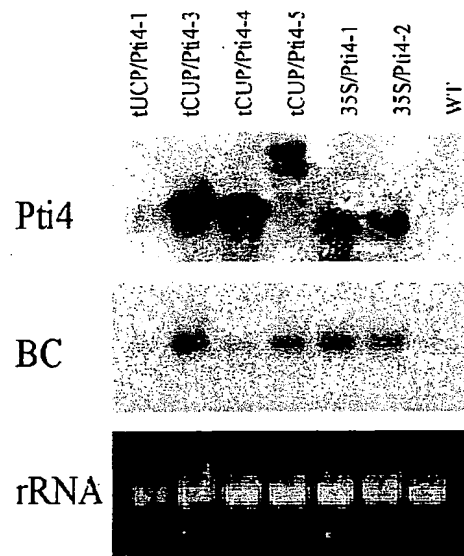


Figure 21

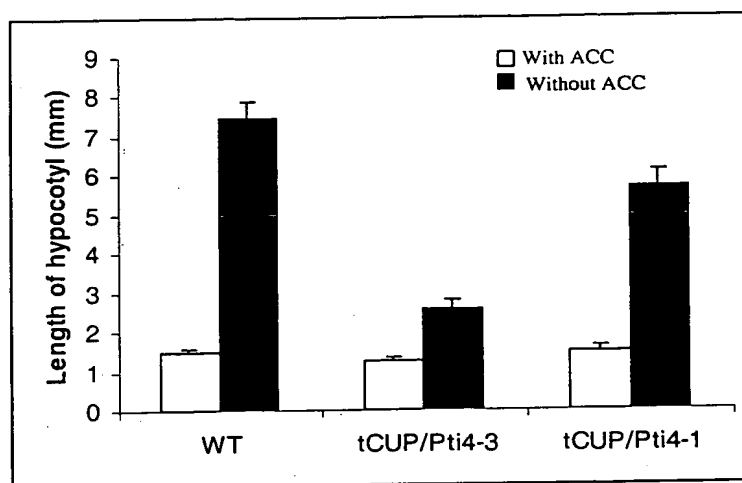


Figure 22



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